

CTE Skill Certificate Test Performance Documentation

This document must be submitted to the test coordinator along with the test scan sheets at the time of testing. It will be submitted to the USOE for the audit and a copy kept on file for two years.

Course: Computer Programming II (C++) # Students in course:
Test Number: 830 # Students tested:
School: Date:
Instructor's Name:

This is to verify that the students on the attached class roll* accomplished the following performance objectives at or above the 80% (moderately to highly skilled) level.

1. Developed advanced applications using input, calculations, output, IF structures, iteration, sub-programs, recursion, arrays, sorting and a database
2. Developed advanced application projects
3. Developed advanced applications using object-oriented programming
4. Demonstrated the ability to search data structures using binary and hash searches comparing the efficiency between sequential and binary searches.
5. Demonstrated the ability to sort data structures using quadratic (n^2) and binary ($n \log n$) sorts comparing the efficiency between various sorts using BigO notation.
6. Demonstrated the ability to use random access files in a program
7. Demonstrated the ability to use linked lists, stacks, queues and binary trees
8. Created user-defined inherited classes demonstrating overloading techniques
9. Created an individual program of significant complexity and size (300-500 lines).
10. Compiled a portfolio of the individual and group programs developed during the course.
11. Participated in a work-based learning experience such as a job shadow, internship, field trip to a software engineering firm or listened to an industry guest speaker and/or competed in a high school programming contest

Each performance is documented and kept on file for two years. (check one or more)

- ☐ Individual student performance tracking sheets
- ☐ A class period summary score sheet
- ☐ Recorded and identified in the class grade book

Instructor's Signature: _____

*Attach a copy of the class period roll and draw a single line through any student on the roll not accomplishing ALL required performance objectives at the 80% (moderately to highly skilled) level.